

# IPv6 Darknet Routing Alternatives

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# Darknet Measurements by MERIT & US DHS

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See plenary presentation:

## IPv6 Pollution Traffic Analysis

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Michael Bailey

(University of Michigan)

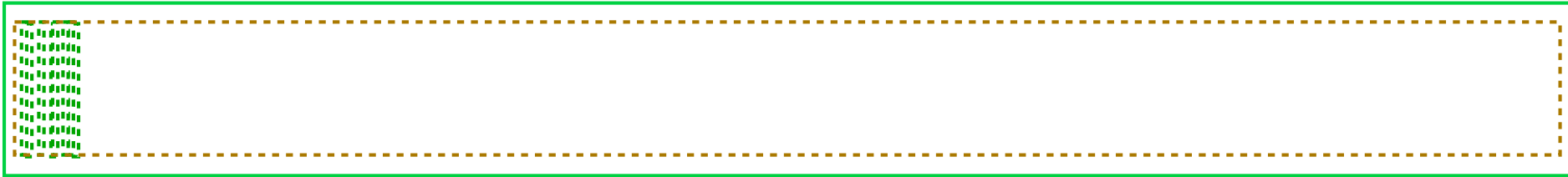
# Darknet Collection Routes

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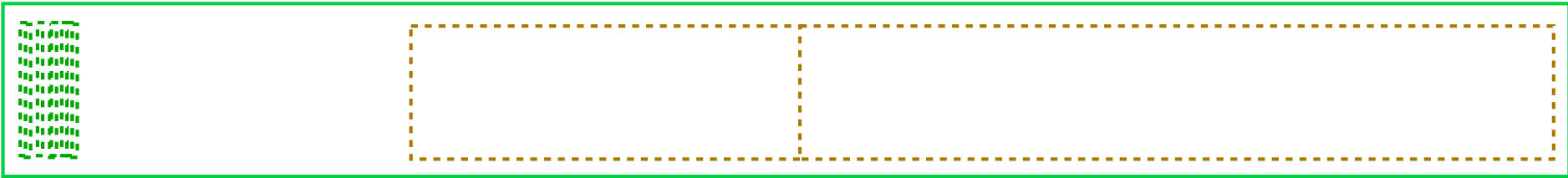
## Allocations



## Darknet /12



## Darknet /14+/13



# Actual Distribution of Allocations

2000::/14

(No exact match Inetnum found)



CIDR NAV

15 (first-level) more specifics

Some of the more specifics have been aggregated because they are too small



# Collection with /12

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- Collects maximum traffic for unannounced routes
- May collect some traffic to allocated addresses
  - If no routes announced for allocated addresses
  - Privacy and operational concerns
- Permitted by the other RIRs
  - Results directly comparable with other regions

# Collection with /14+/13

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- Collects from definitely unallocated addresses
  - no operational concerns
  - less privacy concerns
- Much less traffic collected than other RIR /12s
  - see Manish's first results presentation to plenary
- Current permission for RIPE address space

# More Fine Grained Routes

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- Announce more fine grained routes for unallocated addresses
  - complex
  - longer prefixes = more danger to cause ops issues
  - cost / benefit ?

# Guidance ?

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- Alternatives:
  - status quo: /14+/13
  - /12
  - more fine grained
  - terminate participation
- Some guidance please, also on mailing list !
- If no consensus, maintain status-quo?
- ..... or terminate ?